

WHAT IS CLAIMED IS:

1. A motor positioning servo loop comprising:
a microcontroller device;
a motor actuator; and
an oversampling digital to analog converter, having a digital input and an analog output, said digital input receiving digital signal from said microcontroller device and said analog output coupled to said motor actuator.
2. The motor positioning servo loop of claim 1 wherein said motor actuator is a Hard Disk Drive VCM actuator.
3. The motor positioning servo loop of claim 1 wherein said motor actuator is an optical data storage device actuator.
4. The motor positioning servo loop of claim 1 wherein said oversampling digital to analog converter is a sigma-delta digital bitstream digital to analog converter.
5. The motor positioning servo loop of claim 1 wherein said oversampling digital to analog converter is implemented in hardware within said microcontroller.

6. The motor positioning servo loop of claim 1 wherein said oversampling digital to analog converter is implemented in software within said microcontroller.